

Wednesday 4th September 2019

Welcome and Opening of CBMI 2019

Wednesday, 04/Sep: 8:45am - 0:00am - John Hand Library

Keynote: Klaus Schoeffmann

Wednesday, 04/Sep: 9:00am - 10:00am - John Hand Library

Best Paper Session

Wednesday, 04/Sep/: 10:30am - 12:30pm · John Hand Library

- *Efficient Panorama Database Indexing for Indoor Localization*. Jean-Baptiste Boin, Dmytro Bobkov, Eckehard Steinbach, Bernd Girod
- *Learning Safety Equipment Detection using Virtual Worlds*. Marco Di Benedetto, Enrico Meloni, Giuseppe Amato, Fabrizio Falchi, Claudio Gennaro
- *Semantic Analysis of Soccer News for Automatic Game Event Classification*. Aanund Jupskaa Nordskog, Paal Halvorsen, Steven Hicks, Haakon Stensland, Hugo Hammer, Dag Johansen, Michael Riegler
- *Multi-Task Music Representation Learning from Multi-Label Embeddings*. Alexander Schindler, Peter Knees

Oral Session 1: Learning

Wednesday, 04/Sep: 1:30pm - 3:00pm · John Hand Library

- *Classifier Training from a Generative Model*. Pham Thanh Dat, Anuvabh Dutt, Denis Pellerin, Georges Quénot
- *Semantic and Visual Similarities for Efficient Knowledge Transfer in CNN Training*. Lucas Pascal, Xavier Bost, Benoît Huet
- *Testing Deep Neural Networks on the Same-Different Task*. Nicola Messina, Giuseppe Amato, Fabio Carrara, Fabrizio Falchi, Claudio Gennaro
- *Player Performance Prediction using Deep Learning*. Theodor Wiik, Håvard Johansen, Svein-Arne Pettersen, Ivan Baptista, Tomas Kupka, Dag Johansen, Michael Riegler, Pål Halvorsen

Poster & Demo Session with Welcome Reception

Wednesday, 04/Sep: 3:30pm - 5:30pm · Poster & Demo Rooms

POSTERS

- *Towards Distinction of Rock Art Pecking Styles with a Hybrid 2D/3D Approach*. Markus Seidl, Matthias Zeppelzauer
- *Retrieving Relevant and Diverse Movie Clips Using the MFVCD-7K Multifaceted Video Clip Dataset*. Yashar Deldjoo, Markus Schedl
- *Analyzing Regional Food Trends with Geo-tagged Twitter Food Photos*. Kaimu Okamoto, Keiji Yanai
- *Dropping Activations in Convolutional Neural Networks With Visual Attention Maps*. Abraham Montoya Obeso, Jenny Benois-Pineau, Mireya Saraí García Vázquez, Alejandro A. Ramírez Acosta
- *Hash Code Indexing in Cross-Modal Retrieval*. Sarawut Markchit, Chih-Yi Chiu
- *Comparison of Deep and Shallow Keypoint Detectors*. Umüt Özyaydin, Theodoros Georgiou, Michael Lew

- *THREAT: A Large Annotated Corpus for Detection of Violent Threats*. Hugo L. Hammer, Michael Riegler, Lilja Øvrelid, Erik Velldal

DEMOS

- *Movie Genome Recommender: A Novel Recommender System based on Multimedia Content*. Yashar Deldjoo, Markus Schedl, Mehdi Elahi
- *GANEx: A Complete Pipeline of Training, Inference and Benchmarking GAN Experiments*. Vajira Thambawita, Hugo Lewi Hammer, Michael Riegler, Paal Halvorsen
- *Saga: An Open Source Platform for Training Machine Learning Models and Community-driven Sharing of Techniques*. Rune Johan Borgli, Håkon Kvale Stensland, Pål Halvorsen, Michael Alexander Riegler
- *Shooter Localization Using Videos in the Wild*. Junwei Liang, Jay D. Aronson, Alexander Hauptmann
- *Semi-Automatic Multi-Object Video Annotation based on Tracking, Prediction and Semantic Segmentation*. Jaime B. Fernandez, Venkatesh G M, Dian Zhang, Suzanne Little, Noel E. O'Connor
- *Using Oliver API for emotion-aware movie content characterization*. Theodoros Giannakopoulos, Spiros Dimopoulos, Georgios Pantazopoulos, Aggelina Chatziagapi, Dimitris Sgouropoulos, Athanasios Katsamanis, Alexandros Potamianos, Shrikanth Narayanan
- *Recognising Irish Sign Language Using Electromyography*. Laura Cristina Galea, Alan F. Smeaton
- *Real-time Analysis of Physical Performance Parameters in Elite Soccer*. Kim Andreassen, Dag Johansen, Håvard Johansen, Ivan Baptista, Svein Arne Pettersen, Micheal Riegler, Pål Halvorsen

Thursday 5th September 2019

Keynote: Alan Smeaton

Wednesday, 04/Sep: 9:00am - 10:00am - John Hand Library

Special Session on Medical Image Mining & Health

Thursday, 05/Sep: 10:30am - 12:30pm · John Hand Library

- *Recognition of Alzheimer's Disease on sMRI based on 3D Multi-Scale CNN Features and a Gated Recurrent Fusion Unit*. Ibtissam Bakkouri, Karim Afdel, Jenny Benois-Pineau, Gwenaëlle Catheline
- *Automatic Liver Segmentation on CT Images Combining Region-based Techniques and Convolutional Features*. Vanda Czipczer, Andrea Manno-Kovacs
- *Identifying Surgical Instruments in Laparoscopy Using Deep Learning Instance Segmentation*. Sabrina Kletz, Klaus Schoeffmann, Jenny Benois-Pineau, Heinrich Husslein
- *Multi-sensing of Fragile Persons for Risk Situation Detection: Devices, Methods, Challenges*. Thinhinane Yebda, Jenny Benois-Pineau, Helene Amieva, Benjamin Frolicher
- *ShapeNet: Age-focused Landmark Shape Prediction with Regressive CNN from 2D to 3D*. Youshan Zhang, Brian D. Davison

Oral Session 2: Objects

Thursday, 05/Sep: 1:30pm - 3:00pm · John Hand Library

- *On guiding video object segmentation*. Diego Ortego, Kevin McGuinness, Juan C. SanMiguel, Eric Arazo, José M. Martínez, Noel E. O'Connor
- *Saliency Guided 2D-Object Annotation for Instrumented Vehicles*. Feiyan Hu, Venkatesh G M, Noel O'Connor, Alan Smeaton, Zhen Yang, Suzanne Little
- *Video Analysis based on Human Pose for Unsupervised Summarization and Retrieval*. Carlos Santiago, Duarte M. Alves, Beatriz Q. Ferreira, João Carvalho, Alberto Messina, João P. Costeira
- *Explaining Visual Classification using Attributes*. Muneeb ul Hassan, Philippe Mulhem, Denis Pellerin, Georges Quénot

Special Session on Signals in Multimedia

Thursday, 05/Sep: 3:30pm - 5:30pm · John Hand Library

- *Heart Rate Prediction from Head Movement During Virtual Reality Treatment for Social Anxiety*. Farzan Majeed Noori, Michael Riegler, Smriti Kahlon, Philip Lindner, Tine Nordgreen, Jim Torresen
- *Activity Recognition and Segmentation Approaches to Multimodal Lifelog Data*. Rashmi Gupta, Cathal Gurrin
- *A Quantified-Self Framework for Exploring and Enhancing Personal Productivity*. Gary White, Zilu Liang, Siobhan Clarke
- *Visual-Based Eye Contact Detection in Multi-Person Interactions*. Mahmoud Qodseya, Franck Panta, Florence Sedes

CBMI2019 Banquet: Clontarf Castle

Thursday, 05/Sep: 3:30pm - 5:30pm · John Hand Library

Friday 6th September 2019

Panel Discussion: Multimedia, not Single Media...

Friday, 06/Sep: 9:00am – 10:00am · John Hand Library

Oral Session 3: Applications

Friday, 06/Sep: 10:30am - 12:30pm · John Hand Library

- *Benchmark for Kitchen20, a Daily Life Dataset for Audio-based Human Action Recognition*. Marc Moreaux, Michael Garcia Ortiz, Isabelle Ferrané2 Frédéric Lerasle
- *On Improving Face Generation for Privacy Preservation*. Werner Bailer, Martin Winter
- *Receipt Automatic Reader*. Olga Maslova, Louis Klein, Damien Dabernat, Alexandre Benoit, Patrick Lambert
- *Predicting Behavioural Patterns in Discussion Forums using Deep Learning on Hypergraphs*. Devanshu Arya, Stevan Rudinac, Marcel Worring
- *Causality Inspired Retrieval of Human-object Interactions from Video*. Liting Zhou, Jianquan Liu, Shoji Nishimura, Joseph Antony, Cathal Gurrin

Time	4 Sept 2019	5 Sept 2019	6 Sept 2019
08:00	Registration	Registration	Registration
08:30	Registration	Registration	Registration
09:00	Welcome / Keynote (Klaus Schoeffmann)	Keynote (Alan Smeaton)	PANEL (Multimedia, not Single Media)
09:30	Registration	Registration	Registration
10:00	Coffee	Coffee	Coffee
10:30	Best Paper Session (4 papers)	Special Session on... 'Medical Image Mining & Health' (5 papers)	Oral Session 'Applications' (5 papers)
11:00	Best Paper Session (4 papers)	Special Session on... 'Medical Image Mining & Health' (5 papers)	Oral Session 'Applications' (5 papers)
11:30	Best Paper Session (4 papers)	Special Session on... 'Medical Image Mining & Health' (5 papers)	Oral Session 'Applications' (5 papers)
12:00	Lunch	Lunch	Closing
12:30	Lunch	Lunch	Small Lunch
13:00	Lunch	Lunch	Small Lunch
13:30	Oral Session 'Learning' (4 papers)	Oral Session 'Objects' (4 papers)	Optional Social Activity
14:00	Oral Session 'Learning' (4 papers)	Oral Session 'Objects' (4 papers)	
14:30	Oral Session 'Learning' (4 papers)	Oral Session 'Objects' (4 papers)	
15:00	Coffee	Coffee	
15:30	Poster/Demo/Welcome Session	Special Session on... 'Signals in Multimedia' (4 papers)	
16:00			
16:30			
17:00	Bus Transfer	Bus Transfer	
17:30			
18:00	Banquet (Clontarf Castle)	Banquet (Clontarf Castle)	
18:30			
19:00			
19:30			
20:00			
20:30			
21:00			
21:30			
22:00			
22:30			

Welcome to the seventeenth edition of CBMI, which is organised by Dublin City University on the All Hallows campus.

Meals: Coffee breaks in AM/PM and lunch will be provided for registered delegates.

Registration Desk: Will have someone present during conference hours: 8am – 6pm 4th & 5th (1pm on 6th)

Power Sources: Every room has power-sockets at the back of the room. There are also USB chargers for your phones with some cables attached. If you need anything else, please contact the registration desk.

On-site Help. Every conference room will have helpers throughout the conference. They are wearing yellow t-shirts.

Equipment. Projectors will work with HDMI and VGA inputs. Posters should be A0 size. Each demo will be allocated a table and posterboard. Power (UK style) will be provided for each demo.

Venues:

- **Conference:** DCU All Hallows Campus (53.371143, -6.248836) – locations 4, 7 & 10 in the map below.
- **Banquet:** Clontarf Castle (53.364747, -6.206833) – open for all delegates.

